

AMENDMENT UNDER 37 C.F.R. § 1.111

U.S. Application No. 10/038,585

Attorney Docket No. Q67992

AMENDMENTS TO THE SPECIFICATION

Please replace the present title with the following rewritten title:

**A METHOD AND SYSTEM OF NON-INTRUSIVELY MONITORING THE
MIXTURE RATIO OF A GAS MIXTURE HAVING AT LEAST TWO COMPONENTS**

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Please amend the second full paragraph on page 5 of the specification as follows:

A1
The measurements may advantageously be used in a data-processing system 4 in the form of an optionally portable microcomputer installed permanently or temporarily on the enclosure of the electrical switchgear. The unit 4 may also be an electronic circuit having a microprocessor or a microcontroller and integrated in equipment including one or more sensors. The sensors may be physically separated, or else they may be integrated in a common multi-function measurement instrument. In the figure, the sensor 3 provides both the ~~pressure-sensing-temperature-sensing~~ function and the density-sensing function.

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**Please delete the present Abstract of the Disclosure and replace it with the following
new Abstract of the Disclosure.**

ABSTRACT

A method and system of non-intrusively monitoring the proportion of a component in a gaseous mixture having at least two components and contained in an electrical switchgear enclosure includes measuring the pressure, the temperature, and the density of the gas mixture by using sensors mounted on said enclosure, and in determining said proportion by processing the measured values in a data-processing unit.